AccuLoad® I-to-III Upgrade

You selected Smith Meter when you chose your first electronic preset, and with good reason. Smith Meter, Inc., and FMC Measurement Solutions, is the world leader in the design and manufacture of state-of-the-art measurement equipment and controls. Smith Meter AccuLoad III, our newest advancement in preset control, gives terminal operators the power of total load control.

Now, by way of direct replacement electronics, AccuLoad III users have the opportunity to preserve their operations and take advantage of the leading edge features of AccuLoad III — without having to change existing terminal automation or conduit system.

Choose the best option for your operation and upgrade AccuLoad I as early as 1-2-3-

Option 1. Board upgrade — use existing conduit installation and wiring
Option 2. Board upgrade — wiring reconfiguration and additions
Option 3. Board and TAS Upgrade

Get more than you thought possible from your existing terminal while improving and protecting your operation.

AccuLoad® III with AddPak Additive Expansion

AccuLoad III controls a wide range of types and quantities of additives. The AddPak is a specific addition to accommodate an increase in the number of metered additives. The AccuPack can be installed in the AccuLoad (and existing) and can be equipped with a overstall and ground option board, or it can be mounted remotely as desired. The AddPak has sufficient IO to handle additional 10 metered additives. The following is a list of types and quantities.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
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<tbody>
<tr>
<td>Straight Product or Blending</td>
<td>5, 7, 9, 11</td>
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<tr>
<td>Blend</td>
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</tbody>
</table>

AccuLoad III QUAD

Four Arms Straight Product or Blending

AccuLoad I-to-III Upgrade

AccuLoad III with AddPak Additive Control Expansion

AccuLoad III with Civacon Overfill/Overground

AccuLoad® III

An Evolutionary Advancement in Load Control
Select a Configuration...

AccuLoad® III

- Single Arm Standard
  - Single Arm Ratio
  - Single Arm Sequential

AccuLoad III QUAD

- Dual Arm Standard 1+1
  - Dual Arm Sequential 2+2
  - Dual Arm Sequential 3+1

- AccuLoad III QUAD
  - Dual Arm Standard 2+2
  - Dual Arm Sequential 2+1

- Dual STD + 2 Product Sequential

AccuLoad III QUAD

- Single Arm Standard
  - Single Arm Ratio
  - Single Arm Sequential

AccuLoad QUAD

- Standard + 3 Product Ratio
  - 4 Product Sequential

AccuLoad III – an evolutionary advancement that gives you the power to meet the challenges of the new world. Yet another reason why only one company – PMC Measurement Solutions – can surround you with the best possible solutions.

With AccuLoad III QUAD you get all the benefits of AccuLoad III plus:

- Interfaces with more automation suppliers than any other preset device
- Simultaneous control of up to four arms in any combination of straight products or blending
- Up to six component sequential blending (four arms)
- Up to four component ratio blending (mini arm)

AccuLoad III QUAD – the most advanced, most configurable load controller available.

Communications

General

- Number of Ports: Four
- Configuration: Multi-drop network, up to 32 AccuLoad IIIs can be connected into the same twisted and/or shielded data lines.
- Data Rate: Keypad selectable to asynchronous baud rates of 1200, 2400, 4800, 9600, 19200.
- Data Format: Programmable one-start bit, programmable even or odd parity, one or two stop bits.
- Data Structure: ASCII character-oriented, 8 data bits, 1 parity bit, 1 or 2 stop bits.
- Protocol: Modbus.
- Data Link: EIA-232 (1 dedicated, 2 programmable).
- Physical AWG of shielded connector: Maximum 22 AWG.

Protocol:

- EIA-232 (1 dedicated, 2 programmable)
- EIA-485 (1 dedicated, 2 programmable)

Type: Interfaces with EIA-485 data communication standards. Data transmitters are tri-state.

Type:

- EIA-232 (1 dedicated, 2 programmable)
- EIA-485 (1 dedicated, 2 programmable)

General

- Up to six component sequential blending
- Up to four component ratio blending (mini arm)

AccuLoad III QUAD – the most advanced, most configurable load controller available.

The extensive flexibility and customization of AccuLoad III surpasses any other preset device.

For providing you with the leading edge in measurement control.

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AccuLoad III QUAD – the most advanced, most configurable load controller available.
Smith Meter

**AccuLoad® III-S**

**Select a Configuration...**

- Single Arm Standard
- Single Arm Ratio
- Single Arm Sequential

**AccuLoad® III SIMULATOR**

- Dual Arm Standard 1+1
- Dual Arm Sequential 1+1
- Dual Arm Sequential 1+2
- Dual Arm Sequential 3+1

**AccuLoad® III QUADRUPLE**

Combining game-changing technologies and the superior features of its predecessors, AccuLoad II. AccuLoad III brings the Smith Meter family of electronic controls to new heights. With AccuLoad III, FMC Measurement Solutions redefines its own high standards for providing you with the leading edge in measurement control.

The extensive flexibility and customization of AccuLoad III surpasses any available preset device. In fact, it’s more than a preset. With AccuLoad III, you get full load control:

- Loading, unloading and monitoring
- Management of ground and overfill
- Exclusively from FMC - advanced configurable load controllers/dispensers of additive systems

The ability to custom configure the device to meet your business needs is yet another advantage of AccuLoad III:

- Customize AccuLoad III yourself, on-site
- Customer EO to minimize your PLC requirements
- Multi-graphic display with multiple language capability
- Select Modbus or Smith protocol

**AccuLoad III QUAD**

And now with the introduction of Smith’s AccuLoad III QUAD you can QUADuple your power with the most advanced, most configurable load controller available.

**AccuLoad III Features**

- One, Two, Three, Four Arm Operation
- Up to 60 Recipes
- Multi-Configuration Inputs and Outputs
- Block View Control and Feedback (Sequential blending)
- Control Alarm System (including Fail Safe of Communication and Power)
- Four Communication Ports
- Configurable Load Tolerance for Enthalpy, Pressure and Temperature
- Continuous Monitoring of Critical Functions
- Configurable Load Ticket/BOL Emulation
- Programmable Pulse Outputs
- Four Communication Ports
- Dual Arm Feature

**AccuLoad QUAD**

With AccuLoad III QUAD you get all the benefits of AccuLoad III plus:

- Integration with more automation suppliers than any other preset device
- Simulations control of up to four arms in any combination of straight products or blending
- Up to six component sequential blending (four arms)
- Up to four component ratio blending (two arms)

AccuLoad III—an evolutionary advancement that gives you the power to meet the challenges of the new world. Yet another reason why only one company—FMC Measurement Solutions—can surround you with the best possible solutions.

**Communications**

- **General**
  - Number of Ports: Five
  - Configuration: Modbus networked. Up to 31 AccuLoad III can be connected onto the same network and receive data:
    - Data Rate: Key selectable: 9600, 19200, 38400, 9600, 19200, 38400
    - Data Format: 8N1, 8E7, 8O1 (Keypad-selectable to asynchronous 7, 8, or 9 data bits)
    - Line Protocol: No protocol, half duplex, full duplex, no parity, even, odd, or no parity
    - Data Structure: ASCII character or modbus registers
    - Protocols: Smith Mini, Smith Sequential, and Modbus
  - Data Terminal: ASCII character or register
    - Data Gateway: Smith Mini, Smith Sequential, and Modbus

**AccuLoad III QUAD COM**

- **Up to six component sequential blending**
- **Up to four component ratio blending**

**AccuLoad QUAD**

The Most Configurable Load Controller Available

- **Quad Arm Standard**
- **Dual STD + 2 Product Sequential**
- **4 Product Sequential**
- **Standard + 3 Product Ratio**
- **6 Product Sequential**
AccuLoad III – an evolutionary advancement that gives you the power to meet the challenges of the new world. Yet another reason why only one company – FMC Measurement Solutions can surpass you with the best possible solutions.

**AccuLoad III Features**

- One, Two, Three, Four Arm Operation
- Straddle Product and/or Sequential Blending
- Ground and Overfill
- Ambient Sensor
- Up to 50 Recipes
- User Define Inputs and Outputs
- Block Valve Control and Feedback
- Sequential Blending
- Custom Airline System
- Eight or Four Pieces of Additives
- Four Communication Ports
- Programmable Load Ticket/BOL Emulation
- Four Product
- Four Communication Ports
- Programmable one-start bit, programmable seven or eight data bits (even, odd, or no parity, one stop bit).
- Programmable, selectable to asynchronous or synchronous communication mode with data rates of 1,200; 2,400; 3,600; 4,800; 7,200; 9,600; 19,200; 38,400 bps.
- Communications

  - **Data Rate:** Keypad-selectable to asynchronous or synchronous communication mode with data rates of 1,200; 2,400; 3,600; 4,800; 7,200; 9,600; 19,200; 38,400 bps.
  - **Data Format:** Programmable, selectable to asynchronous or synchronous communication mode with data rates of 1,200; 2,400; 3,600; 4,800; 7,200; 9,600; 19,200; 38,400 bps.
  - **Data Structure:** ASCII character-oriented, character echo. Half-duplex, full-duplex, no line protocol.
  - **Line Protocol:** Odd, or no parity, one stop bit.

**In the world of electronic presetting systems, Smith Meter AccuLoad I and AccuLoad II set the standards. Now unleash the power with AccuLoad III – evolution driven by demand**

**Select a Configuration…**

**Single Arm Standard**

- 3+1 Dual Arm Sequential
- 2+2 Dual Arm Sequential
- 1+1 Single Arm Sequential
- 1+1 Single Arm Standard
- **3+1 Dual Arm Sequential**

**AccuLoad III QUAD**

- Select a Configuration…

- **Standard + 3 Product Ratio**
- **4 Product Sequential**
- **Up to Six Component Sequential Blending**
- **Up to Four Component Ratio Blending**

**Select a Configuration…**

- 1+1 Single Arm Standard
- 1+1 Single Arm Ratio
- 3+1 Multi Arm Sequential

**AccuLoad QUAD**

- The Most Configurable Load Controller Available

- **Quad Arm Standard**
- **Dual STD + 2 Product Sequential**
- **Up to Six Component Sequential Blending**
- **Up to Four Component Ratio Blending**

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- **Quad Arm Standard**
- **Dual STD + 2 Product Sequential**
- **Up to Six Component Sequential Blending**
- **Up to Four Component Ratio Blending**

**Communications**

- **General**
  - **Number of Ports:** Four
  - **Configuration:** Multi-drop network.
  - **AccuLoad IIIs can be connected onto the same network and receive data simultaneously.**

- **Data Rate:** Keypad selectable to asynchronous or synchronous communication mode with data rates of 1,200; 2,400; 3,600; 4,800; 7,200; 9,600; 19,200; 38,400 bps.

- **Data Format:** Programmable, selectable to asynchronous or synchronous communication mode with data rates of 1,200; 2,400; 3,600; 4,800; 7,200; 9,600; 19,200; 38,400 bps.

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AccuLoad I to III Upgrade

Smith Meter

AccuLoad® III with AddPak Additive Expansion

AccuLoad III is a set of options and quantities of additive controllers. The AddPak is a specific additive to accommodate an increase in the number of metered additives. The AddPak can be installed in the AccuLoad (providing the unit is equipped with an overfill and ground option board), or it can be mounted remotely as desired. The AddPak has sufficient I/O to handle additional 10 metered additives. The following is a list of types and quantities.

Option 1
Board and Panel Upgrade - wiring changes

- New backlit graphical display
- New meter factor calculation
- Automatic meter factor calculation when changing
- Improved meter factor calculation
- Multi-port RS-485
- Four 485 connections (485 now available)
- Increased baud rate
- Driver prompting
- MODBUS protocol
- Maintenance logging
- Additional transaction archiving
- Time reports and event logging

Option 2
Board and Panel Upgrade - wiring and changes

- New backlit graphical display
- New meter factor calculation when changing
- Improved meter factor calculation
- Multi-port RS-485
- Four 485 connections (485 now available)
- Increased baud rate
- Driver prompting
- MODBUS protocol
- Maintenance logging
- Additional transaction archiving
- Time reports and event logging

Option 3
Board and Panel Upgrade - wiring and changes

- New backlit graphical display
- New meter factor calculation when changing
- Improved meter factor calculation
- Multi-port RS-485
- Four 485 connections (485 now available)
- Increased baud rate
- Driver prompting
- MODBUS protocol
- Maintenance logging
- Additional transaction archiving
- Time reports and event logging

AccuLoad III-5
Single or Dual Arm
Straight Product or Blending

AccuLoad III QUAD
Four Arms
Straight Product or Blending

AccuLoad I-to-III Upgrade

AccuLoad III with AddPak Additive Control Expansion

AccuLoad III with Civacon Overfill/Ground
AccuLoad I to III Upgrade

Take AccuLoad I to the next level of load control... as easy as 1-2-3

Option 1 Board and Panel Upgrade, New Wiring Changes
- New refresh graphics display
- 60-120-240 display with salt awareness
- Automatically meter factor calculation when changing
- Improved meter factor franking
- Multi-port
- Programmable address fields
- Additional display channels
- Local start and stopping
- Real-time water level
- Drive meter factor
- Progressed meter factor
- Three additional communication ports with new protocols
- Transceiver power sensing
- Total volume capacity
- Inverse distance capability

Option 2 Board and Panel Upgrade, New Wiring Changes and Additions
- Three pressure sensors
• Smart additive control (up to 12)
• Programmable add-on
• Additional dynamic display
• Two 12-inch displays
• Three additional communication ports with new protocols
• Transceiver power sensing
• Total volume capacity
• Inverse distance capability

Option 3 Board and Fast Upgrade
- Time reports and event logging
- Additional outputs
- MIQ/MIL equipment
- Diver plumbing
- Increased load rate
- Prongs

AccuLoad III with Civacon Overfill/Ground

By consolidating technologies, FMC Measurement Solutions and Civacon have joined together to create an automatic overfill protection system designed to protect and streamline your loading operation. Integrating Civacon’s overfill/ground monitor into the architecture of the Smith Meter AccuLoad III allows state-of-the-art electronics to work to your advantage in an efficient and reliable monitoring system.

- Instantaneous Civacon OPTI- THERM Rack Monitor
- Eliminates need for costly, explosion-proof electrical boxes
- Automatic recognition of overfill sensor type (optic or thermistor)

An Evolutionary Advancement in Load Control

AccuLoad III is equipped with Civacon Overfill/Ground – automatic, streamlined and essential for overfill protection.

The Most Trusted Name In Measurement

AccuLoad III is a complete system designed to protect and streamline your loading operation. Smith Meter AccuLoad III, our newest advancement in preset control, gives terminal operators the power to take the next step.

AccuLoad III controls a wide range of types and quantities of additives. The AddPak has sufficient I/O to handle an additional 10 metered additives. The following is a list of types and quantities:

- Automatic recognition of overfill
- Automatic verification of ground
- Automatic shut-downs on overfill or ground fault
- Display of overfill/ground status and operator prompting
- Master AccuLoad communicates peer-to-peer with other AccuLoad at the face

Standard and optional AddPak functions:

- Field monitor and control
- Import/Export
- Enhanced preset control
- Metered additive control
- Smart additive control
- Increased baud rate

AccuLoad III QUAD Four Arm System

AccuLoad I-to-III Upgrade

AccuLoad III with AddPak Additive Control Expansion

AccuLoad III with Civacon Overfill/Ground

Headquarters: 1602 Wagner Ave., P.O. Box 10428, Erie, PA 16514-0428, Phone: 814/898-5000, Fax: 814/899-8927

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